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Claims

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- 1. Receiver for an angle-modulated optical signal (S) at a light frequency, which is injected into an optical resonator (FPR),
 - said optical resonator (FPR) being preceded by an optical coupling-out device (OU) for reflected light (RL) from the optical resonator (FPR),
- and wherein the optical coupling-out device (OU) is followed

 10 by an opto-electric transducer (OEW1),

 characterized in that, to determine the phase of the optical

 signal (S), the optical resonator (FPR) has a resonance

 frequency which is tuned to the light frequency.
- 2. Receiver according to Claim 1, characterized in that the optical resonator (FPR) is a Fabry-Perot resonator.
 - 3. Receiver according to one of Claims 1 to 2,
- characterized in that the optical coupling-out device (OU) has a circulator (ZIRK) connected preceding the optical resonator (FPR) and whose output is connected to the opto-electric transducer (OEW1).
- 4. Receiver according to one of Claims 1 to 2, characterized in that the optical coupling-out device (OU) has a polarization beam splitter (PST) with a following polarization plate (PP) so that the angle-modulated optical signal (S) and the reflected light (RL) have different
- 30 polarizations which can be separated by the polarization beam splitter.
 - 5. Receiver according to one of preceding Claims,

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characterized in that a second opto-electric transducer (OEW2) is connected following the optical resonator (FPR) in order to increase the sensitivity.

6. Receiver according to one of preceding Claims, characterized in that there is provided a coding for assignment of the phase variation by means of the light reflected and possibly transmitted by the optical resonator (FPR).

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